□ = 1-15 January
○ = 16-31 January

○ = 0 birds
④ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500 "
● = 500+ "

JANUARY

SI-MN4-38 (REV. 9-65)

CENTRAL PACIFIC OCEAN

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
NIIHAU I.
KAUAI I.
KAULA I.
OAHU I.
MOLOKAI I.
MAUI
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

180° WEST 170° 160° 150° WEST
30° NORTH 20° 10° EQUATOR 10° SOUTH
0 100 200 300 400 500 STATUTE MILES

□ = 1-15 February
○ = 16-31 February
④ == 0 birds
○ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500"
● = 500+ "

FEB

FEBRUARY

SI-MNH-38 (Rev. 9-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 150° WEST

HAWAIIAN ISLANDS
KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
NIHAU I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

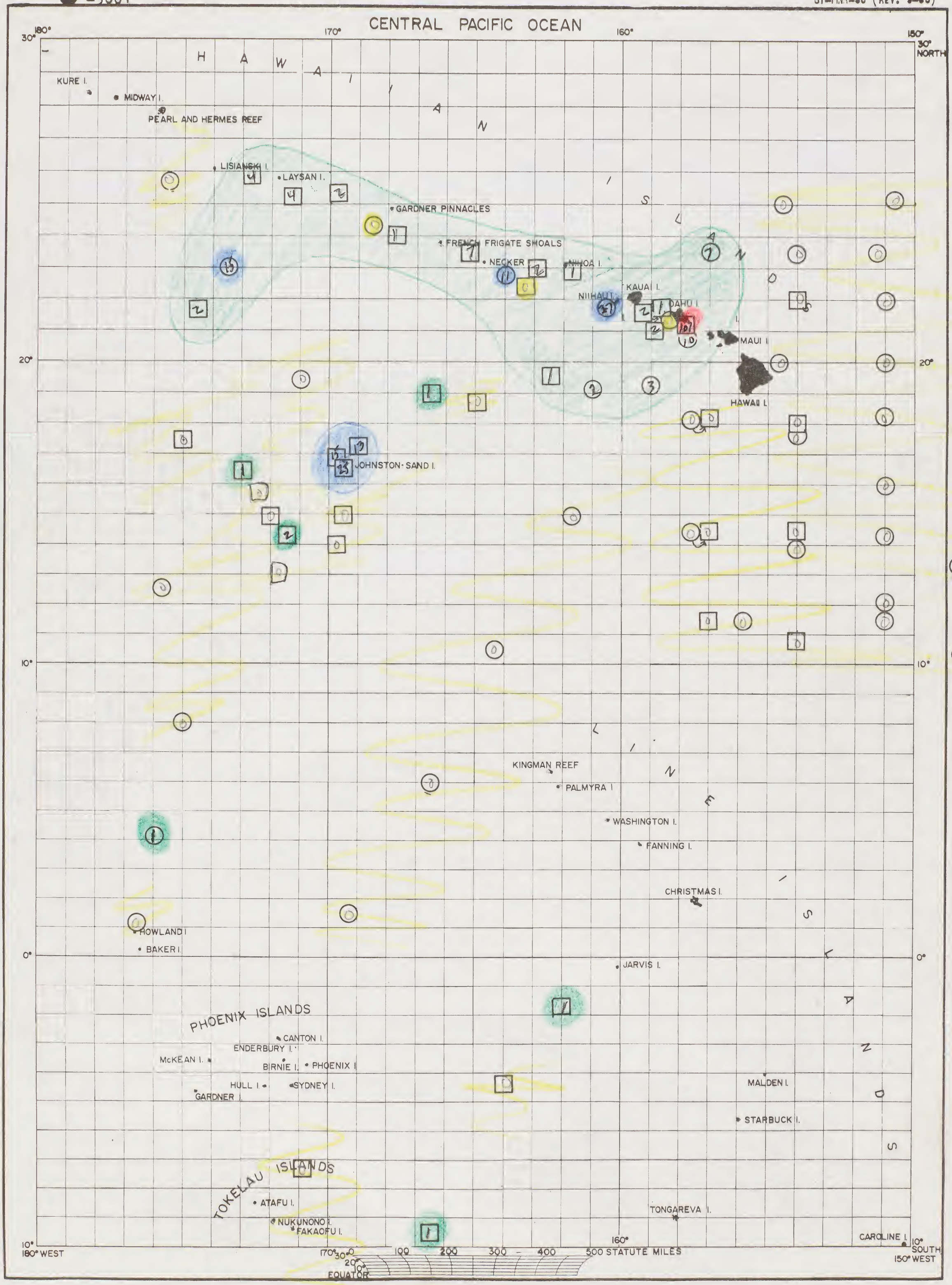
100 200 300 400 500 STATUTE MILES

□ = 1-15 March
○ =16-31 March
④ = 0 birds
○ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500 "
● =500+ "

RFG

MARCH

SI-MNH-38 (Rev. 9-65)



□ = 1-15 April
○ = 16-31 April
○ = 0 birds
④ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 50-100 "
● = 101-500 "
● = 500+ "

RFD

APRIL

SI-MNH-38 (REV. 9-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST
150° WEST

HAWAII

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.

PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.

TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.

MALDEN I.
STARBUCK I.
TONGAREVA I.
CAROLINE I.

LINE ISLANDS

0 100 200 300 400 500 STATUTE MILES
EQUATOR

□ 1-15 May

○ = 16-31 May

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

MAY

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 June

○ = 16-31 June

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

JUNE

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150° 30° NORTH

30° 20° 10° 0°

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

JARVIS I.

HOWLAND I.

BAKER I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

LINE ISLANDS

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

EQUATOR

□ 1-15 July
○ = 16-31 July
○ = 0 birds
④ =1-10 birds
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

RF-63

JULY

SI-MNP-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 150° WEST

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
30° 20° 10° EQUATOR

□ 1-15 August

○ = 16-31 August

○ = 0 birds

④ = 1-10 "

○ = 11-25 "

○ = 26-50 "

○ = 51-100 "

● = 101-500 "

● = 500+ "

KFO

AUGUST

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

LINE ISLANDS

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

180° WEST — 170° — 160° — 150° WEST

30° NORTH — 20° — 10° — 0° — 10° SOUTH

0 100 200 300 400 500 STATUTE MILES

EQUATOR

□ 1-15 September

○ = 16-31 September

○ = 0 birds

④ = 1-10 "

○ = ~~11~~1-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

KFB

SEPTEMBER

SI-MNWi-38 (8-65)

CENTRAL PACIFIC OCEAN

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU

MAUI I.

HAWAII I.

JOHNSTON-SAND I

KINGMAN REEF

PALMYRA I

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

180° WEST

170°30'

160°

150° WEST

30° NORTH

20°

10° SOUTH

0°

EQUATOR

0 100 200 300 400 500 STATUTE MILES

□ 1-15 October

○ = 16-31 October

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

OCTOBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

HAWAIIAN

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU

MAUI I.

HAWAII I.

20°

JOHNSTON-SAND I.

10°

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

0°

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

LINE ISLANDS

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 November

○ = 16-31 November

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

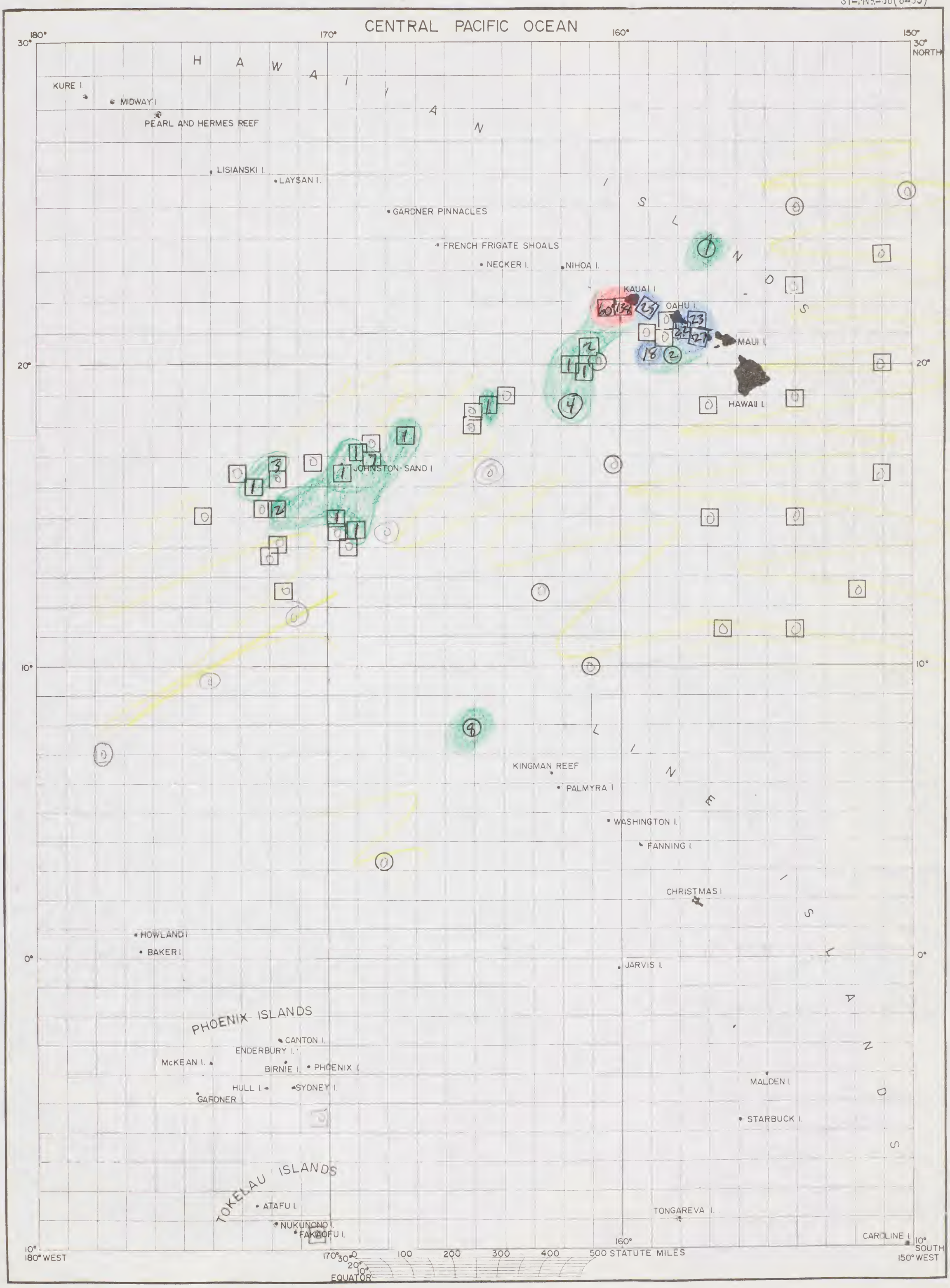
○ =51-100 "

● =101-500"

● =500+ "

NOVEMBER

SI-MNH-38(8-65)



□ 1-15 December
○ = 16-31 December
○ = 0 birds
④ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

DECEMBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
180° WEST 170° 160° 150° WEST
10° SOUTH

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
30° 20° 10° EQUATOR

□ = 1-15 January
○ = 16-31 January

○ = 0 birds
④ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500 "
● = 500+ "

JANUARY

SI-MN'4-38 (REV. 9-65)

CENTRAL PACIFIC OCEAN

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
NIIHAU I.
KAULA I.
OAHU I.
MOLOKAI I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
JARVIS I.
HOWLAND I.
BAKER I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

180° WEST 170° 160° 150° WEST
30° NORTH 20° 10° 0° 10° SOUTH
0 100 200 300 400 500 STATUTE MILES
30° 20° 10° EQUATOR

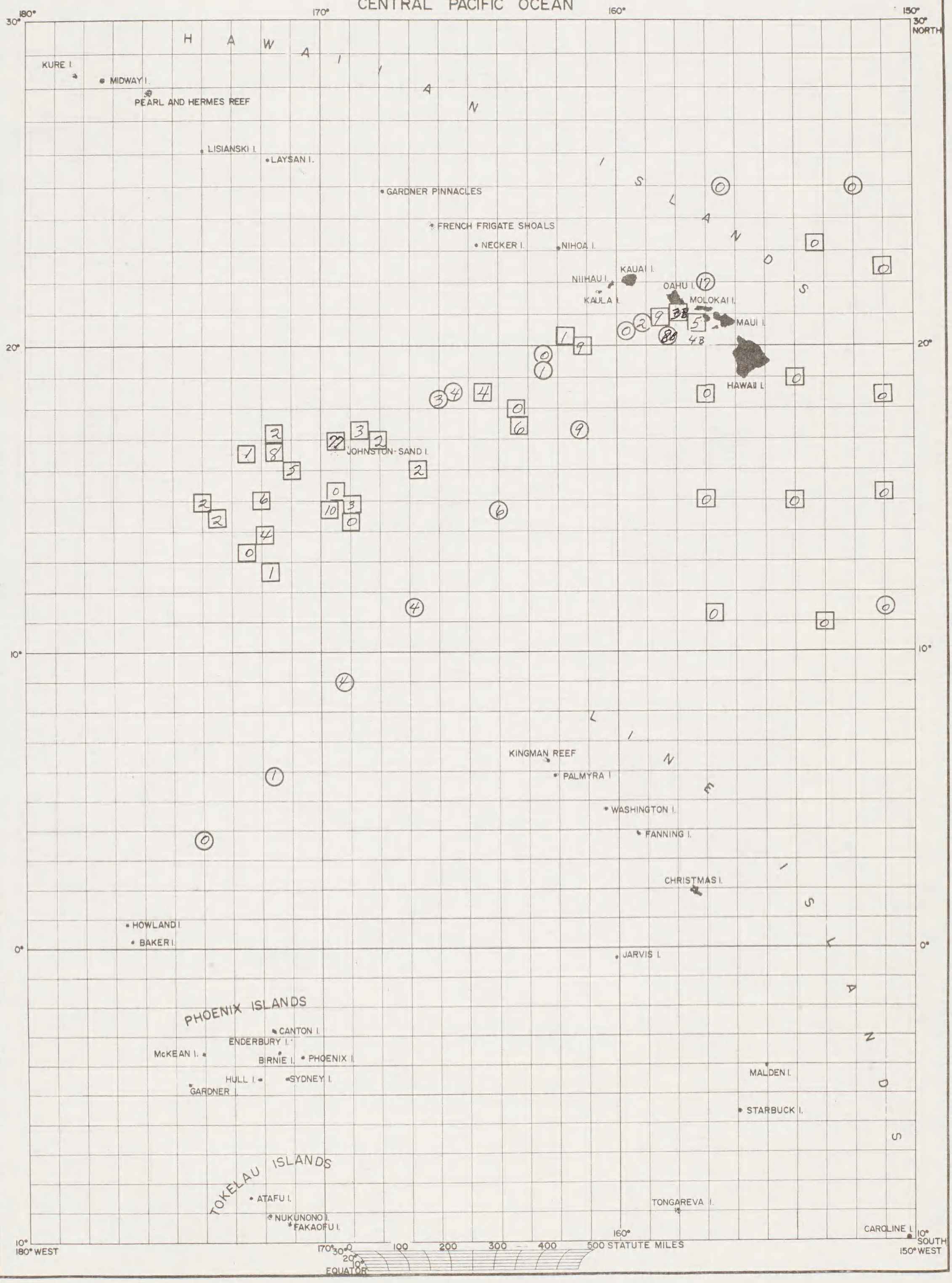
□ = 1-15 January
○ = 16-31 January

○ = 0 birds
④ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500 "
● = 500+ "

JANUARY

SI-MN4-38 (REV. 9-65)

CENTRAL PACIFIC OCEAN



□ = 1-15 February
○ = 16-31 February
④ == 0 birds
○ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500 "
● = 500+ "

FEBRUARY

SI-MNH-38 (Rev. 9-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
180° WEST 170° 160° 150° WEST 10° SOUTH
EQUATOR

HAWAIIAN ISLANDS

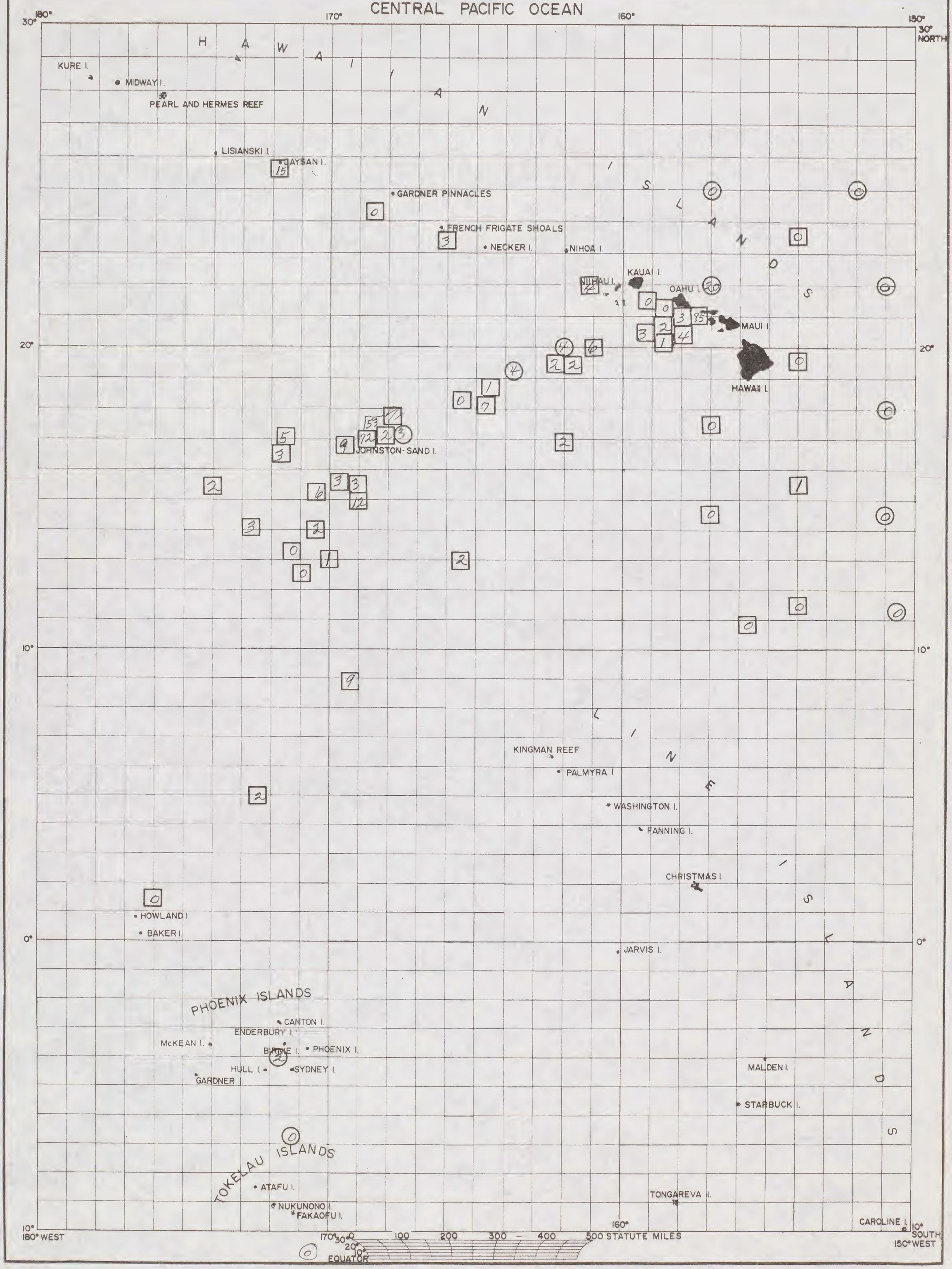
KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I. 15
GARDNER PINNACLES 0
FRENCH FRIGATE SHOALS 3
NECKER I.
NIHOA I.
NIIHAU I. 2
KAUAI I.
OAHU I. 20
0 0 3 85
3 2 4
1 4
MAUI I.
HAWAII I.
4 6
2 2
4
0 1
7
53
5 72 2 3
3 9
JOHNSTON-SAND I.
2
3 3
6 12
3
2 0
0 1
0
2
9
2
0
KINGMAN REEF
PALMYRA I
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I. 2
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS 0
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.
0 100 200 300 400 500 STATUTE MILES

□ = 1-15 February
○ = 16-31 February
④ = 0 birds
○ = 1-10 "
○ = 11-25 "
○ = 26-50 "
○ = 51-100 "
● = 101-500 "
● = 500+ "

FEBRUARY

SI-MNH-38 (Rev. 9-65)

CENTRAL PACIFIC OCEAN



□ = 1-15 March
○ =16-31 March
④ = 0 birds
○ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500 "
● =500+ "

MARCH

SI-4NH-38 (Rev. 9-85)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH

HAWAII

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER
NIHOA I.
NIIHAU I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.

PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.

TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES
30° 20° 10° EQUATOR

□ = 1-15 March
○ =16-31 March
④ = 0 birds
○ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500 "
● =500+ "

MARCH

SI-INH-38 (REV. 9-85)

CENTRAL PACIFIC OCEAN

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
NIIHAU I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.

PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.

TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

180° WEST
170°30'
160°
150° WEST
30° NORTH
20°
10°
EQUATOR
10° SOUTH
100 200 300 400 500 STATUTE MILES

□= 1-15 April
○=16-31 April
○= 0 birds
④= 1-10 "
○=11-25 "
○=26-50 "
○=50-100 "
●=101-500"
●=500+ "

APRIL

SI-MNH-38 (Rev. 9-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 170° 160° 150° WEST

HAWAIIAN ISLANDS
KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
EQUATOR

□= 1-15 April
○=16-31 April
○= 0 birds
④= 1-10 "
○=11-25 "
○=26-50 "
○=50-100 "
●=101-500"
●=500+ "

APRIL

SI-MNH-38 (REV. 9-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
180° WEST 170° 160° 150° WEST
10° SOUTH
EQUATOR

HAWAII

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I
BAKER I.
JARVIS I.

PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.

TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES

□ 1-15 May

○ = 16-31 May

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

MAY

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

180° WEST 170° 160° 150° WEST

10° SOUTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

0 100 200 300 400 500 STATUTE MILES

EQUATOR

□ 1-15 May

○ = 16-31 May

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

MAY

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

10° SOUTH

HAWAII

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

LINE ISLANDS

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 June

○ = 16-31 June

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

JUNE

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

10° SOUTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 June

○ = 16-31 June

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

JUNE

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150° WEST

30° NORTH

20°

10°

0°

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

LINE ISLANDS

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 July
○ = 16-31 July
○ = 0 birds
Ⓐ =1-10 birds
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

JULY

SI-MN-38 (8-65)

CENTRAL PACIFIC OCEAN

HAWAII

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

180° WEST 170° 160° 150° WEST
30° NORTH
20°
10°
0°
10° SOUTH
EQUATOR

0 100 200 300 400 500 STATUTE MILES

□ 1-15 July
○ = 16-31 July
○ = 0 birds
Ⓐ =1-10 birds
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

JULY

SI-MM-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 170° 160° 150° WEST

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.
PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.
TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
0 20° 10° EQUATOR

□ 1-15 August

○ = 16-31 August

○ = 0 birds

④ = 1-10 "

○ = 11-25 "

○ = 26-50 "

○ = 51-100 "

● = 101-500 "

● = 500+ "

AUGUST

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

10° SOUTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

LINE ISLANDS

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

180° WEST

170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 August

○ = 16-31 August

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

AUGUST

SI-MM-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

10° SOUTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

180° WEST

150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 September

○ = 16-31 September

○ = 0 birds

④ = 1-10 "

○ = 11-25 "

○ = 26-50 "

○ = 51-100 "

● = 101-500"

● = 500+ "

SEPTEMBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

20°

JOHNSTON-SAND I.

10°

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

0°

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 September

○ = 16-31 September

○ = 0 birds

④ = 1-10 "

○ = ~~11~~ 11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

SEPTEMBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

20°

JOHNSTON-SAND I.

10°

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

0°

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

10° 180° WEST

170° 160° 150° WEST

30° 20° 10° EQUATOR

0 100 200 300 400 500 STATUTE MILES

□ 1-15 October

○ = 16-31 October

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

OCTOBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

20°

JOHNSTON-SAND I.

10°

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

0°

JARVIS I.

LINE ISLANDS

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

10° 180° WEST 170° 160° 150° WEST

30° 20° 10° EQUATOR

0 100 200 300 400 500 STATUTE MILES

□ 1-15 October

○ = 16-31 October

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

OCTOBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°

30° NORTH

20°

10°

0°

10° SOUTH

180° WEST 150° WEST

HAWAIIAN ISLANDS

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I.

HAWAII I.

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I.

WASHINGTON I.

FANNING I.

CHRISTMAS I.

HOWLAND I.

BAKER I.

JARVIS I.

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

0 100 200 300 400 500 STATUTE MILES

EQUATOR

□ 1-15 November

○ = 16-31 November

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

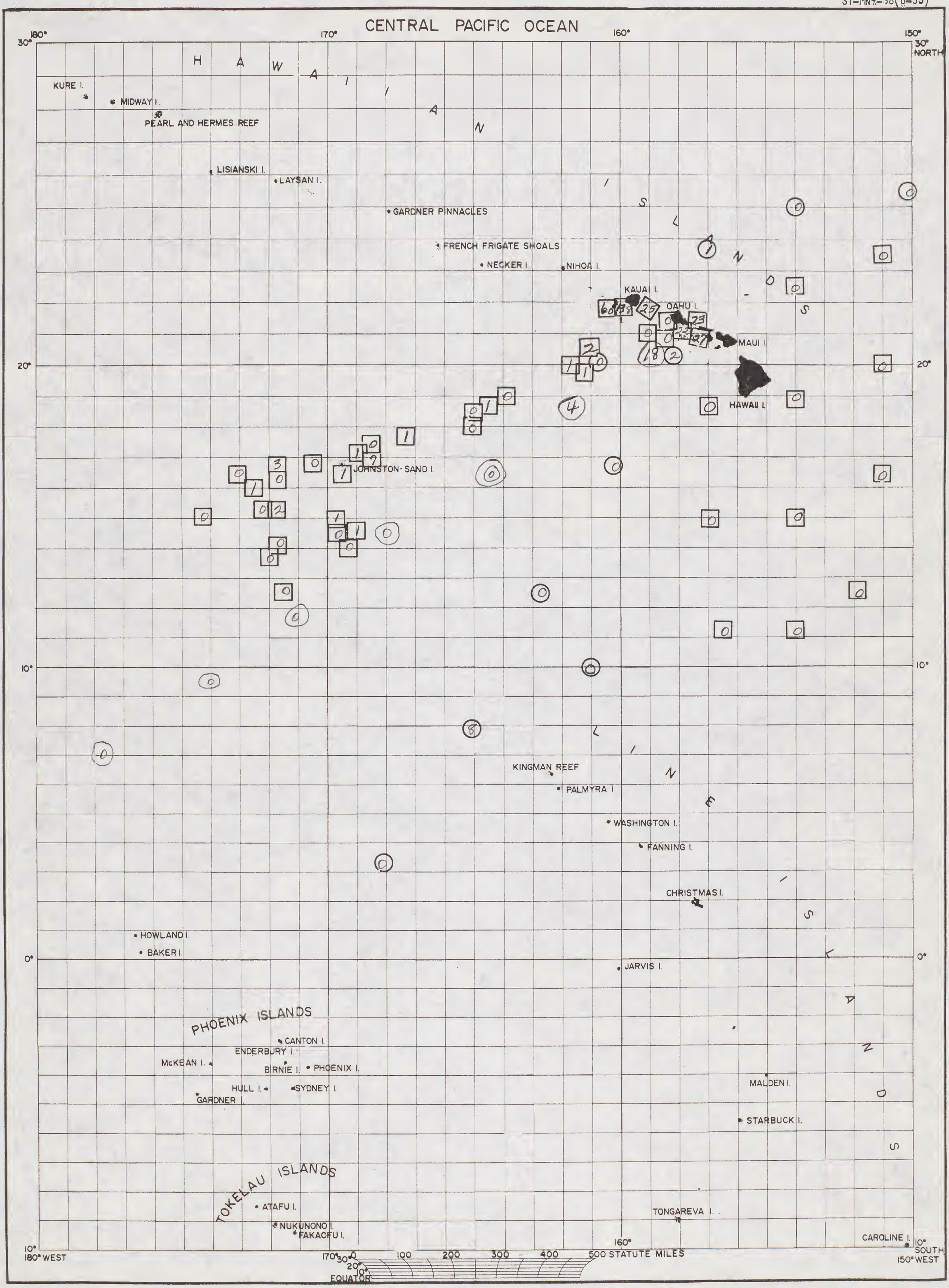
○ =51-100 "

● =101-500"

● =500+ "

NOVEMBER

SI-MN4-38(8-65)



□ 1-15 November

○ = 16-31 November

○ = 0 birds

④ = 1-10 "

○ =11-25 "

○ =26-50 "

○ =51-100 "

● =101-500"

● =500+ "

NOVEMBER

SI-MN4-38(8-55)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150° 30° NORTH

HAWAIIAN

KURE I.

MIDWAY I.

PEARL AND HERMES REEF

LISIANSKI I.

LAYSAN I.

GARDNER PINNACLES

FRENCH FRIGATE SHOALS

NECKER I.

NIHOA I.

KAUAI I.

OAHU I.

MAUI I

HAWAII I.

20°

JOHNSTON-SAND I.

KINGMAN REEF

PALMYRA I

WASHINGTON I.

FANNING I.

CHRISTMAS I.

10°

HOWLAND I.

BAKER I.

JARVIS I.

0°

PHOENIX ISLANDS

CANTON I.

ENDERBURY I.

McKEAN I.

BIRNIE I.

PHOENIX I.

HULL I.

SYDNEY I.

GARDNER I.

MALDEN I.

STARBUCK I.

TOKELAU ISLANDS

ATAFU I.

NUKUNONO I.

FAKAOFU I.

TONGAREVA I.

CAROLINE I.

10° SOUTH

180° WEST 170° 160° 150° WEST

0 100 200 300 400 500 STATUTE MILES

30° 20° 10° EQUATOR

□ 1-15 December
○ = 16-31 December
○ = 0 birds
④ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

DECEMBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 170° 160° 150° WEST

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU I.
MAUI I.
HAWAII I.
JOHNSTON-SAND I.

LINE ISLANDS

KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.

PHOENIX ISLANDS

CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.
MALDEN I.
STARBUCK I.

TOKELAU ISLANDS

ATAFU I.
NUKUNONO I.
FAKAOFU I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
30° 20° 10° EQUATOR

□ 1-15 December
○ = 16-31 December
○ = 0 birds
④ = 1-10 "
○ =11-25 "
○ =26-50 "
○ =51-100 "
● =101-500"
● =500+ "

DECEMBER

SI-MNH-38 (8-65)

CENTRAL PACIFIC OCEAN

180° 170° 160° 150°
30° NORTH
20°
10°
0°
10° SOUTH
180° WEST 150° WEST

HAWAIIAN ISLANDS

KURE I.
MIDWAY I.
PEARL AND HERMES REEF
LISIANSKI I.
LAYSAN I.
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER I.
NIHOA I.
KAUAI I.
OAHU
MAUI I.
HAWAII I.
JOHNSTON-SAND I.
KINGMAN REEF
PALMYRA I.
WASHINGTON I.
FANNING I.
CHRISTMAS I.
HOWLAND I.
BAKER I.
JARVIS I.

PHOENIX ISLANDS
CANTON I.
ENDERBURY I.
McKEAN I.
BIRNIE I.
PHOENIX I.
HULL I.
SYDNEY I.
GARDNER I.

TOKELAU ISLANDS
ATAFU I.
NUKUNONO I.
FAKAOFU I.

MALDEN I.
STARBUCK I.
TONGAREVA I.
CAROLINE I.

0 100 200 300 400 500 STATUTE MILES
EQUATOR